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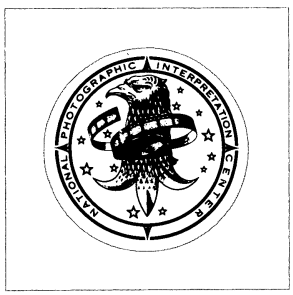
(See inside cover)



PHOTOGRAPHIC
EXPLOITATION
PRODUCTS

NATIONAL PHOTOGRAPHIC
INTERPRETATION CENTER

QUARTERLY INDEX TO PHOTOGRAPHIC EXPLOITATION PRODUCTS JANUARY-MARCH 1979

Secret

NPIC/R-01/79
APRIL 1979

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PHOTOGRAPHIC EXPLOITATION PRODUCTS

QUARTERLY INDEX TO PHOTOGRAPHIC EXPLOITATION PRODUCTS JANUARY-MARCH 1979

APRIL 1979

NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER

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INTRODUCTION

The Index to Photographic Exploitation Products is a guide to the contents of reports and memoranda produced by means of photographic interpretation. These are added to the Exploitation Products Data File (EPF) of the National Base of Image-Derived Information (NBIDI) when received by the National Photographic Interpretation Center (NPIC). The index includes imagery interpretation reports produced by various components of the Army, Navy, Air Force, Central Intelligence Agency, Defense Intelligence Agency, and foreign governments, as well as those produced by NPIC. At the request of the intelligence community, this publication is compiled and published quarterly then cumulated annually by NPIC for the use of properly cleared components of USIB member organizations.

Listed documents are on file in NPIC, and microfiche copies are available to requesters when parent organizations are unable to provide copies. Information, such as bibliographies on specific subjects, is available from the EPF to answer requests which cannot be satisfied from the PEP.

Requests for regular distribution of the PEP, for additional information from the EPF, or for microfiche copies of documents should be channeled through appropriate liaison offices located in NPIC. Organizations which do not have a liaison office in NPIC should submit the request in writing to: NPIC/PSG/RSD/IB.

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GUIDE TO USERS

The PEP consists of six indexes:

- Subject in alphabetic sequence.
- Originator in report type/number sequence.
- General category with subject in alphabetic sequence.
- Geographic coordinate sequence. (Geographic coordinates are listed where a single area is involved.)
- WAC/BE number sequence.
- Accession number sequence.

The accession number sequence may be referred to for complete information on each document, including edited abstracts. An asterisk at the end of an abstract indicates the abstract was prepared by the Reports Analysis Section. Selected information is contained in the other sequences. The accession number should be used when requesting microfiche copies of documents.

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ABBREVIATIONS AND NUMERIC CODES

REPORT TYPES

BIIB - Basic Imagery Interpretation Brief

BIIR - Basic Imagery Interpretation Report

BREF - Photographic Interpretation Brief

DPIR - Detailed Photographic Interpretation Report

DSIIB - Direct Support Imagery Interpretation Brief

DSIIR - Direct Support Imagery Interpretation Report

ENDR - Engineering Drawing

FEDR - Detailed Photographic Interpretation Report (Far East)

FEGR - General Photographic Interpretation Report (Far East)

FESR - Special Photographic Interpretation Report (Far East)

IIM - Imagery Interpretation Memorandum

INFR - Inter-office Memorandum

IRA - Imagery Research Aid

LOT - Letter of Transmittal

MEMO - Memorandum

MODL - Model Announcement

NAIR - New Applications of Imagery Report

NBRG - National Basic Reference Graphic

NEDR - Detailed Photographic Interpretation Report (Near East)

NEGR - General Photographic Interpretation Report (Near East)

NEIR - Initial Photographic Interpretation Report (Near East)

NESR - Special Photographic Interpretation Report (Near East)

NEWS - Technical Newsletter

NOTE - Photographic Interpretation Note

PIN - Photographic Interpretation Note

PIR - Photographic Interpretation Report

REPT - Photographic Interpretation Report

SPIR - Special Photographic Intelligence Report

TP - Technical Publication

SECURITY CLASSIFICATION

00 - UNCLASSIFIED

04 - SECRET

05 - SECRET

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07 - CONFIDENTIAL

08 - CONFIDENTIAL

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ACDA - ARMS CONTROL AND DISARMAMENT AGENCY

AF - AIR FORCE

ARMY - ARMY

[redacted]

[redacted]

CIA - CENTRAL INTELLIGENCE AGENCY

DIA - DEFENSE INTELLIGENCE AGENCY

GMAIC - GUIDED MISSILE AND ASTRONAUTICS INTELLIGENCE COMMITTEE

[redacted]

JOINT - JOINT (2 or more USIB members participating)

NATO - NORTH ATLANTIC TREATY ORGANIZATION

NAVY - NAVY

ORIGINATOR

NPIC - NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER

NSA - NATIONAL SECURITY AGENCY

NTPC - NATIONAL TECHNICAL PROCESSING CENTER

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SAC - SAC (544th RTS)

SAC-1 - SAC-1 (8th RTS)

SAC-2 - SAC-2 (3921 ST RTS)

SAC-C - SAC-C (15th RTS)

STL - SPACE TECHNOLOGY LABORATORY 25X1

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USIB - UNITED STATES INTELLIGENCE BOARD

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EPF SUBJECT CATEGORIES

05 - AIR ACTIVITY

Airfields, seaplane stations, aircraft, storage, production, research, training, aerohydrodynamic vehicles, and air defense activity.

10 - GENERAL ACTIVITY

Complex studies, unidentified installations/equipment, and terrain or agriculture analyses.

13 - BIOLOGICAL/CHEMICAL WARFARE ACTIVITY

Research, production, testing, training, and storage.

15 - COMPREHENSIVE REPORTS

Mission readouts, summaries, and country or area studies.

25 - ELECTRONICS/COMMUNICATIONS ACTIVITY

Radar and radio installations/equipment, missile, air, naval related installations/equipment, production, research, testing.

30 - INDUSTRIAL ACTIVITY

Raw materials, basic processing, heavy and light industry, chemical plants, and power facilities. (For shipbuilding, see NAVAL. For nuclear power plants, see NUCLEAR.)

35 - MILITARY ACTIVITY

Ground force installations/equipment, production, testing, research, and repair.

40 - MISSILES & SPACE ACTIVITY

Sites, research, production, storage, and equipment.

55 - NUCLEAR ACTIVITY

Mining, production, research, testing, storage, and nuclear power plants.

60 - OVERLAYS/PLOTS

Mission Coverage Plots, Mission Coverage Statistics, tracks, and annotated maps.

65 - RESEARCH AND DEVELOPMENT ACTIVITY

Technical publications and miscellaneous R&D installations.

75 - NAVAL ACTIVITY

Submarine bases, naval bases and air stations, shipyards, research, and equipment.

80 - STORAGE ACTIVITY (NON-MILITARY)

POL storage, agricultural storage, and industrial storage.

85 - TRANSPORT AND PIPELINE ACTIVITY

Road and rail activity, pipelines, and canal systems.

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PART I

Listing of Reports Alphabetically

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SUBJECT	COUN	COORD	ACCN NO.
AIRCRAFT, BACKFIRE B	UR		S085708
AIRCRAFT, FISHBED H RECON POD VARIANT SEARCH	UR		S085707
AIRCRAFT, FISHBED L MIG-21	UR		S085733
AIRCRAFT, FISHBED N MIG-21	UR		S085735
AIRCRAFT, FLAGON E SU-15	UR		S085738
AIRCRAFT, FLAGON F	UR		S085737
AIRCRAFT, FLOGGER F MIG-23 + VARIANT	UR		S086018
AIRCRAFT, FLOGGER G	UR		S086019
AIRCRAFT, HIND D MI-24 MODIFIED	UR		S085766
[redacted]			25X1
AIRFIELDS, HIGHWAY LANDING STRIPS	PL		S086238
BRATISLAVA SA-3 RING SITES IDENTIFICATION	CZ	4809 N 01709 E	S086135
[redacted]			25X1
ELECTRONICS, CATS PAW RADIO RELAY ANT MODIF	UR		S085587
ELECTRONICS, THIN SKIN B RADAR MODIFIED	PL		S085706
[redacted]			25X1
KRASNOKAMENSK HEAT + THERMAL POWER PLANT	UR	500436N 1180540E	S085582
MILITARY, M-1977 MRL RESUPPLY VEHICLE	UR		S086124

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SUBJECT	COUN	COORD	ACCN NO.
MILITARY, M-1977 MULTIPLE ROCKET LAUNCHER	UR		
MILITARY, M-1978 BMP COMMAND CONTROL VARIANT	UR		S085896
MISSILES, AS-4	UR		S086017
MISSILES, SA-3 RINGS	CZ		S086135
MISSILES, SA-8 TEL MODIFIED POSS	UR		S086136
MISSILES, SS-11 CANISTER	UR		S085709
MISSILES, SS-11 MISSILE/CANISTER/TRANSPORTER	UR		S085731
PRAHA SA-3 RING SITES IDENTIFICATION	CZ	5004 N 01425 E	S086135
SOVETSKAYA GAVAN MISSILE PATROL BOAT BASE	UR	490148N 1401825E	S082039
SOVETSKAYA GAVAN NAVAL FACILITIES APPROACHES	UR	485930N 1401540E	S082038

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PART II

Listing of Reports by Originator

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ORIG	TYPE	REPT NO.	DATE	CONTROL NO.	SEC CLASS	ACCN NO.
AF	ENDR	C1024-78	20 OCT 78		05	S086017
AF	ENDR	E1018-78	03 AUG 78		04	S085738
AF	ENDR	E1019-78	31 AUG 78		04	S085737
AF	ENDR	E1020-78	11 SEP 78		04	S085735
AF	ENDR	E1025-78	27 NOV 78		07	S086019
AF	ENDR	E1003-1-74	11 SEP 78		04	S085733
AF	ENDR	E1005-1-74	12 SEP 78		07	S085731
AF	ENDR	E1020-1-77	06 NOV 78		07	S086018
AF	PAR	8-78	24 OCT 78		07	S085709
AF	PAR	9-78	29 SEP 78		04	S085707
AF	PAR	11-78	03 OCT 78		04	S085706
AF	PAR	12-78	18 OCT 78		05	S085708
[redacted]						25X1
CIA	INFR	IS10260-78	15 NOV 78		05	S085582
DIA	NBRG	NDA06-5097-77	09 NOV 77		05	S082038
DIA	NBRG	NDA06-5098-77	09 NOV 77		05	S082039
[redacted]						25X1
NPIC	SR	SR001-79	JAN 79		05	S086136
NPIC	SR	SR002-79	JAN 79		05	S086135
NPIC	SR	SR004-79	JAN 79		05	S086238

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ORIG	TYPE	REPT NO.	DATE	CONTROL NO.	SEC CLASS	ACCN NO.
NPIC	SR	SR084-78	DEC 78		05	S085964

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PART III

Listing of Reports by General Subject

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EPF/CAT	SUBJECT	COUN	COORD	ACCN NO.
05	AIRCRAFT, BACKFIRE B	UR		S085708
05	AIRCRAFT, FISHBED H RECON POD VARIANT SEARCH	UR		S085707
05	AIRCRAFT, FISHBED L MIG-21	UR		S085733
05	AIRCRAFT, FISHBED N MIG-21	UR		S085735
05	AIRCRAFT, FLAGON E SU-15	UR		S085738
05	AIRCRAFT, FLAGON F	UR		S085737
05	AIRCRAFT, FLOGGER F MIG-23 + VARIANT	UR		S086018
05	AIRCRAFT, FLOGGER G	UR		S086019
05	AIRCRAFT, HIND D MI-24 MODIFIED	UR		S085766
[redacted]				
05	AIRFIELDS, HIGHWAY LANDING STRIPS	PL		S086238
[redacted]				
25	ELECTRONICS, CATS PAW RADIO RELAY ANT MODIF	UR		S085587
25	ELECTRONICS, THIN SKIN B RADAR MODIFIED	PL		S085706
[redacted]				
30	KRASNOKAMENSK HEAT + THERMAL POWER PLANT	UR	500436N 1180540E	S085582
[redacted]				

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EPF/CAT	SUBJECT	COUN	COORD	ACCN NO.
35	MILITARY, M-1977 MRL RESUPPLY VEHICLE	UR		S086124
35	MILITARY, M-1977 MULTIPLE ROCKET LAUNCHER	UR		
35	MILITARY, M-1978 BMP COMMAND CONTROL VARIANT	UR		S085896
40	BRATISLAVA SA-3 RING SITES IDENTIFICATION	CZ	4809 N 01709 E	S086135
40	MISSILES, AS-4	UR		S086017
40	MISSILES, SA-3 RINGS	CZ		S086135
40	MISSILES, SA-8 TEL MODIFIED POSS	UR		S086136
40	MISSILES, SS-11 CANISTER	UR		S085709
40	MISSILES, SS-11 MISSILE/CANISTER/TRANSPORTER	UR		S085731
40	PRAHA SA-3 RING SITES IDENTIFICATION	CZ	5004 N 01425 E	S086135
75	SOVETSKAYA GAVAN MISSILE PATROL BOAT BASE	UR	490148N 1401825E	S082039
75	SOVETSKAYA GAVAN NAVAL FACILITIES APPROACHES	UR	485930N 1401540E	S082038

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PART IV

Listing of Reports by Coordinates

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COORD	SUBJECT	COUN	ACCN NO.
4809 N 01709 E	BRATISLAVA SA-3 RING SITES IDENTIFICATION	CZ	S086135
485930N 1401540E	SOVETSKAYA GAVAN NAVAL FACILITIES APPROACHES	UR	S082038
490148N 1401825E	SOVETSKAYA GAVAN MISSILE PATROL BOAT BASE	UR	S082039
5004 N 01425 E	PRAHA SA-3 RING SITES IDENTIFICATION	CZ	S086135
500436N 1180540E	KRASNOKAMENSK HEAT + THERMAL POWER PLANT	UR	S085582

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PART V

Listing of Reports by WAC/BE Number

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WAC/BE	SUBJECT	IDHS CODE	COORD	COUN	ACCN NO.
	AIRCRAFT, FLOGGER G			UR	S086019
	MISSILES, AS-4			UR	S086017
	[redacted]				
	KRASNOKAMENSK HEAT + THERMAL POWER PLANT		500436N 1180540E	UR	S085582
	SOVETSKAYA GAVAN MISSILE PATROL BOAT BASE		490148N 1401825E	UR	S082039
	SOVETSKAYA GAVAN NAVAL FACILITIES APPROACHES		485930N 1401540E	UR	S082038
	[redacted]				

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Sanitized Copy Approved for Release 2009/10/27 : CIA-RDP79T01184A000200010001-7

PART VI

Listing of Reports by Accession Number

Sanitized Copy Approved for Release 2009/10/27 : CIA-RDP79T01184A000200010001-7

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DIA NBRG NDA06-5097-77 09 NOV 77 SEC CLASS: 05G MSN: 0001P ACCN: S082038

SOVETSKAYA GAVAN NAVAL FACILITIES APPROACHES
WAC NO : 0204 [redacted] EPF CAT : 75
UR 485930N 1401540E
NPIC NO : -
COMIREX NO:
25X1 25X1

DIA NBRG NDA06-5098-77 09 NOV 77 SEC CLASS: 05G MSN: 0001P ACCN: S082039

SOVETSKAYA GAVAN MISSILE PATROL BOAT BASE
WAC NO : 0204 [redacted] EPF CAT : 75B
UR 490148N 1401825E
NPIC NO : - 29-B
COMIREX NO: [redacted]
25X1 25X1

CIA INFR IS10260-78 15 NOV 78 SEC CLASS: 05 MSN: 0003P ACCN: S085582

KRASNOKAMENSK HEAT + THERMAL POWER PLANT
WAC NO : 0202 [redacted] EPF CAT : 30E
UR 500436N 1180540E
NPIC NO : -
COMIREX NO:
25X1 25X1

KRASNOKAMENSK HEAT AND THERMAL POWER PLANT, A NEWLY IDENTIFIED PLANT CLOSE TO THE CHINESE BORDER, IS DESCRIBED.*

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[redacted]

AF PAR 11-78 03 OCT 78 SEC CLASS: 04 MSN: 0002P ACCN: S085706

ELECTRONICS, THIN SKIN B RADAR MODIFIED
WAC NO :
IDHS CODE:
BE/OBJ NO:
EPF CAT : 25A
PL
NPIC NO : -
COMIREX NO:

THIS REPORT PROVIDES A DIMENSIONAL ANALYSIS OF THE HORN MODIFICATION TO THE THIN SKIN B GROUND RADAR. THIS REPORT IS KEYED TO DRAWING 72C1017.*

AF PAR 9-78 29 SEP 78 SEC CLASS: 04 MSN: 0002P ACCN: S085707

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AIRCRAFT, FISHBED H RECON POD VARIANT SEARCH UR
WAC NO : BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 05D COMIREX NO:

AF PAR 12-78 18 OCT 78 SEC CLASS: 05 MSN: 0004P ACCN: S085708

AIRCRAFT, BACKFIRE B UR
WAC NO : BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 05D COMIREX NO:

THIS REPORT IS A DETAILED DESCRIPTION OF THE BACKFIRE B, INCLUDING MENSURATION, IDENTIFICATION, AND DESCRIPTION OF EXTERNAL FITTINGS.*

AF PAR 8-78 24 OCT 78 SEC CLASS: 07 MSN: 0004P ACCN: S085709

MISSILES, SS-11 CANISTER UR
WAC NO : BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 40A COMIREX NO:

THIS REPORT UPDATES PAR 74-003 AND DRAWING 74E1005/1. IT INCLUDES AN UPDATED DESCRIPTION OF THE SS-11 MISSILE/CANISTER AND CONVERTS ALL DIMENSIONS TO METRIC.*

AF ENDR E1005-1-74 12 SEP 78 SEC CLASS: 07 MSN: 0001P ACCN: S085731

MISSILES, SS-11 MISSILE/CANISTER/TRANSPORTER UR
WAC NO : BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 40A COMIREX NO:

THIS DRAWING SUPPLEMENTS PARS 74-003 AND 78-008.*

AF ENDR B4001-78 14 SEP 78 SEC CLASS: 00B MSN: 0001P ACCN: S085732

AIRCRAFT, FIGHTER INLET U/I CH
WAC NO : BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 05D COMIREX NO:

AF ENDR E1003-1-74 11 SEP 78 SEC CLASS: 04 MSN: 0001P ACCN: S085733

AIRCRAFT, FISHBED L MIG-21 UR
WAC NO : BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 05D COMIREX NO:

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THIS DRAWING IS SUPPLEMENTED BY DRAWINGS 71E1028 AND 72E1011.*

AF ENDR E1020-78 11 SEP 78 SEC CLASS: 04 MSN: 0001P ACCN: S085735

AIRCRAFT, FISHBED N MIG-21 UR
WAC NO : BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 05D COMIREX NO:

THIS DRAWING IS SUPPLEMENTED BY DRAWINGS 71E1028, 72E1011, AND 74E1003/1.*

AF ENDR E1019-78 31 AUG 78 SEC CLASS: 04 MSN: 0001P ACCN: S085737

AIRCRAFT, FLAGON F UR
WAC NO : BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 05D COMIREX NO:

THIS DRAWING SUPPLEMENTS DRAWING NUMBER 78E1018 AND SUPERSEDES DRAWING 77C3010.*

AF ENDR E1018-78 03 AUG 78 SEC CLASS: 04 MSN: 0001P ACCN: S085738

AIRCRAFT, FLAGON E SU-15 UR
WAC NO : BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 05D COMIREX NO:

[redacted] 25X1

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AF ENDR E1021-78 13 SEP 78 SEC CLASS: 00 MSN: 0001P ACCN: S086016

SPACE, VENUS 10 SPACECRAFT + DESCENT CAPSULE UR
WAC NO : BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 40H COMIREX NO:

AF ENDR C1024-78 20 OCT 78 SEC CLASS: 05 MSN: 0001P ACCN: S086017

MISSILES, AS-4 UR
WAC NO : NPIC NO : - 25X1
IDHS CODE: EPF CAT : 40J COMIREX NO:

AF ENDR E1020-1-77 06 NOV 78 SEC CLASS: 07 MSN: 0001P ACCN: S086018

AIRCRAFT, FLOGGER F MIG-23 + VARIANT UR
WAC NO : BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 05D COMIREX NO:

THIS DRAWING SUPPLEMENTS DRAWINGS 76E1001,76E1002 AND 76E1013.*

AF ENDR E1025-78 27 NOV 78 SEC CLASS: 07 MSN: 0001P ACCN: S086019

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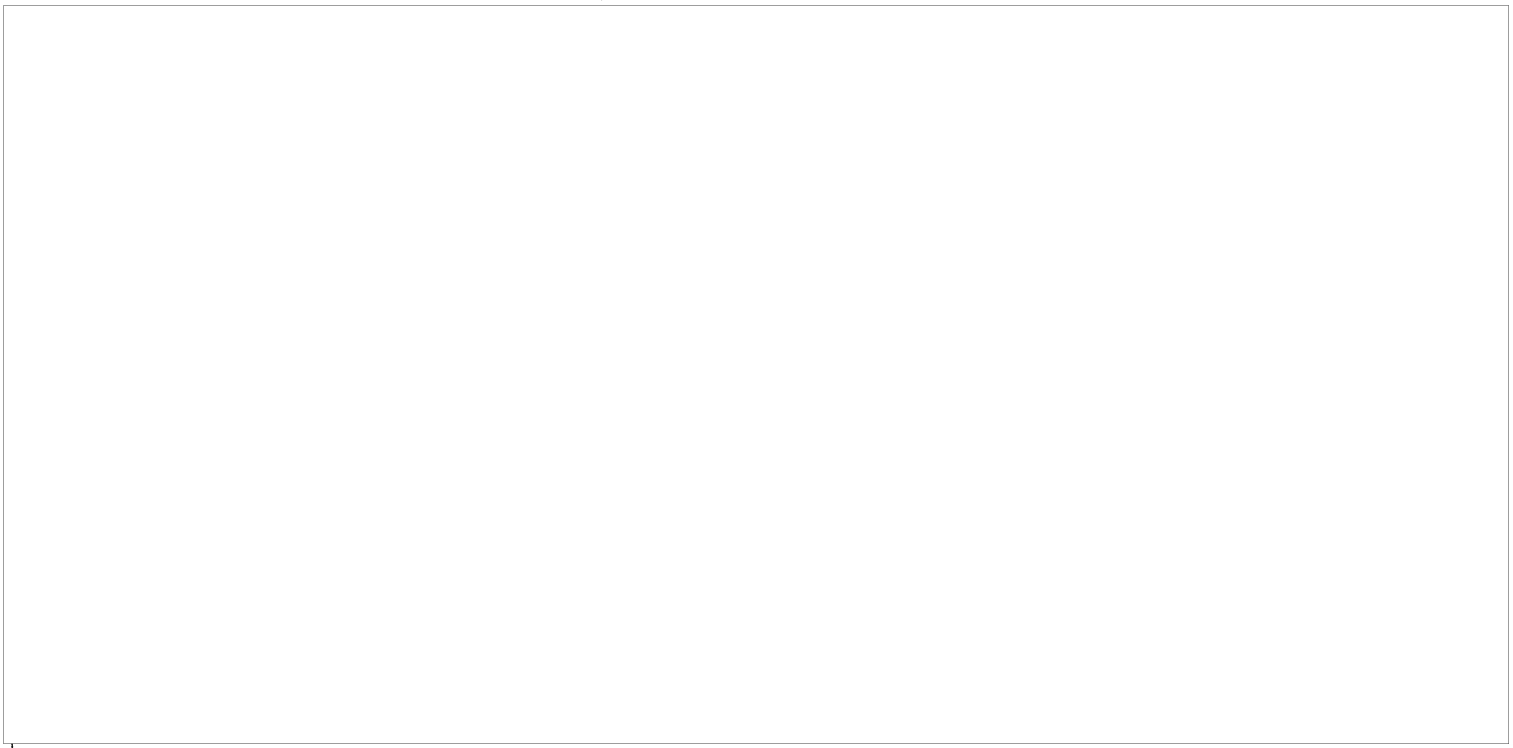
AIRCRAFT, FLOGGER G
WAC NO : BE/OBJ NO: [redacted] UR
IDHS CODE: EPF CAT : 05D NPIC NO : - 25X1
COMIREX NO:

THIS DRAWING SUPPLEMENTS DRAWING 76E1001.*

25X1



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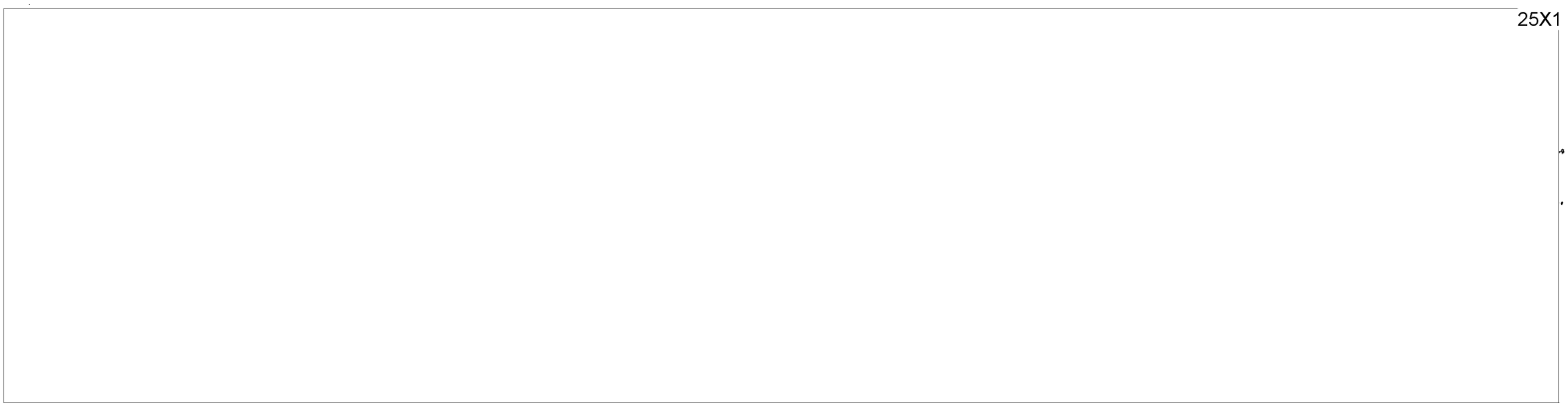
25X1



NPIC SR SR002-79 JAN 79 SEC CLASS: 05B MSN: 0004P ACCN: S086135

BRATISLAVA SA-3 RING SITES IDENTIFICATION CZ 4809 N 01709 E
WAC NO : 0232 BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 40C COMIREX NO:

PRAHA SA-3 RING SITES IDENTIFICATION CZ 5004 N 01425 E
WAC NO : 0231 BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 40C COMIREX NO:

MISSILES, SA-3 RINGS CZ
WAC NO : BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 40C COMIREX NO:

LOW-ALTITUDE AIR DEFENSE CAPABILITIES ARE BEING IMPROVED AROUND TWO MAJOR CZECHOSLOVAKIAN CITIES. A RING OF SIX SA-3 SAM SITES AROUND PRAGUE AND A RING OF FIVE SA-3 SITES AROUND BRATISLAVA WERE IDENTIFIED ON IMAGERY ACQUIRED BETWEEN EARLY SPRING AND EARLY FALL OF 1978. THESE ARE THE ONLY TWO SA-3 RINGS IN CZECHOSLOVAKIA.

NPIC SR SR001-79 JAN 79 SEC CLASS: 05B MSN: 0005P ACCN: S086136

MISSILES, SA-8 TEL MODIFIED POSS UR
WAC NO : BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 40C COMIREX NO:

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A COMPARATIVE ANALYSIS OF LARGE-SCALE CORRIDOR IMAGERY AND OF MOSCOW PARADE IMAGERY REVEALED THAT SA-8 REGIMENTS IN THE GROUP OF SOVIET FORCES, GERMANY (GSFG) MAY BE EQUIPPED WITH A MODIFIED (B MODEL) SA-8 TRANSPORTER-ERECTOR-LAUNCHER (TEL).

NPIC SR SR004-79 JAN 79 SEC CLASS: 05B MSN: 0002P ACCN: S086238

AIRFIELDS, HIGHWAY LANDING STRIPS PL

WAC NO : BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 05A COMIREX NO:

THIS REPORT DISCUSSES ALL OF THE KNOWN POLISH HIGHWAY LANDING STRIPS (AUXILIARY AIRFIELDS) DERIVED FROM PHOTOGRAPHY.

A TOTAL OF 21 HIGHWAY LANDING STRIPS HAD BEEN IDENTIFIED ON PHOTOGRAPHY AS OF 15 DECEMBER 1978. THEY PROVIDE POLISH AND WARSAW PACT TACTICAL AIR UNITS WITH A SUBSTANTIAL DISPERSAL AND EMERGENCY LANDING CAPABILITY.

THESE LANDING STRIPS AVERAGE 2,340 BY 14 METERS AND ARE CHARACTERIZED BY AUTOMOBILE/AIRCRAFT PARKING AREAS AT EITHER END OF THE LANDING STRIPS.

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List of Conversion Factors by Classification

UNITS OF LENGTH

IF YOU HAVE	*MULTIPLY BY*	*TO OBTAIN*
MILLIMETERS	0.0394	INCHES
CENTIMETERS	0.3937	INCHES
INCHES	25.4000	MILLIMETERS
INCHES	2.5400	CENTIMETERS
FEET	0.3048	METERS
FEET	0.0003	KILOMETERS
YARDS	0.9144	METERS
METERS	3.2808	FEET
METERS	0.0005	MILES(NAUTICAL)
METERS	1.0936	YARDS
KILOMETERS	3280.8400	FEET
KILOMETERS	0.6214	MILES(STATUTE)
KILOMETERS	0.5400	MILES(NAUTICAL)
MILES(STATUTE)	1.6093	KILOMETERS
MILES(NAUTICAL)	6076.1154	FEET
MILES(NAUTICAL)	1.8520	KILOMETERS
MILES(NAUTICAL)	1852.0000	METERS

UNITS OF AREA

IF YOU HAVE	*MULTIPLY BY*	*TO OBTAIN*
SQUARE CENTIMETERS	0.1550	SQUARE INCHES
SQUARE INCHES	6.4516	SQUARE CENTIMETERS
SQUARE FEET	0.0929	SQUARE METERS
SQUARE YARDS	0.8361	SQUARE METERS
SQUARE METERS	10.7639	SQUARE FEET
SQUARE METERS	1.1960	SQUARE YARDS
SQUARE METERS	1.0000	CENTARES
SQUARE METERS	0.0002	ACRES
SQUARE METERS	0.0001	HECTARES
ACRES	4046.8564	SQUARE METERS
ACRES	0.4047	HECTARES
HECTARES	10000.0000	SQUARE METERS
HECTARES	2.4711	ACRES

UNITS OF MASS

IF YOU HAVE	*MULTIPLY BY*	*TO OBTAIN*
KILOGRAMS	2.2046	POUNDS(AVOIR.)
POUNDS(AVOIR.)	0.4536	KILOGRAMS
SHORT TONS	0.9072	METRIC TONS
METRIC TONS	1.1023	SHORT TONS
METRIC TONS	0.9842	LONG TONS
LONG TONS	1.0160	METRIC TONS

UNITS OF VOLUME

IF YOU HAVE	*MULTIPLY BY*	*TO OBTAIN*
LITERS	0.2642	GALLONS
LITERS	0.0063	BARRELS(POL)
LITERS	0.0010	CUBIC METERS
GALLONS	3.7854	LITERS
GALLONS	0.1337	CUBIC FEET
GALLONS	0.0238	BARRELS(POL)
GALLONS	0.0038	CUBIC METERS
BUSHELS	0.0352	CUBIC METERS
CUBIC FEET	7.4805	GALLONS
CUBIC FEET	0.1781	BARRELS(POL)
CUBIC FEET	0.0283	CUBIC METERS
CUBIC YARDS	0.7646	CUBIC METERS
BARRELS(POL)	158.9873	LITERS
BARRELS(POL)	42.0000	GALLONS
BARRELS(POL)	5.6146	CUBIC FEET
BARRELS(POL)	0.1590	CUBIC METERS
CUBIC METERS	1000.0000	LITERS
CUBIC METERS	264.1721	GALLONS
CUBIC METERS	35.3147	CUBIC FEET
CUBIC METERS	28.3776	BUSHELS
CUBIC METERS	6.2898	BARRELS(POL)
CUBIC METERS	1.3080	CUBIC YARDS

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